INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/006754

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F16L15/02, 19/02, 37/28					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum docum	rentation searched (classification system followed by classification syste	ssification symbols)			
Int.Cl ⁷ F16L15/00-15/08, 19/00-19/14, 37/28-37/47					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
Y	Microfilm of the specification	n and drawings	1-7,11-17		
A	annexed to the request of Jap Model Application No. 56838/1	anese Utility 987(Laid-open	8-10,18-20		
	No. 164689/1988)	50, (1010 Open			
	(Daikin Industries, Ltd.),				
	26 October, 1988 (26.10.88), Full text; Figs. 1 to 4				
	(Family: none)				
Y	Microfilm of the specification and drawings 1- annexed to the request of Japanese Utility Model Application No. 128406/1988(Laid-open No. 48694/1990) (Showa Electric Wire & Cable Co., Ltd.),		1-7,11-17		
	04 April, 1990 (04.04.90),		,		
	Full text; Figs. 1 to 4 (Family: none)				
	•				
Y Further documents are listed in the continuation of Box C. See patent family annex.					
"A" document defining the general state of the art which is not considered		"T" later document published after the into date and not in conflict with the applic the principle or theory underlying the i	ation but cited to understand		
to be of particular relevance "E" earlier application or patent but published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		step when the document is taken alone "Y" document of particular relevance: the	claimed invention cannot be		
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive combined with one or more other such	step when the document is		
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the art "&" document member of the same patent family			
Date of the actual completion of the international search Date of mailing of the international search report					
Date of the actual completion of the international search 27 June, 2005 (27.06.05)		19 July, 2005 (19.6	07.05)		
Name and mailing address of the ISA/		Authorized officer			
Japanese Patent Office					
Facsimile No.		Telephone No.			

INTERNATIONAL SEARCH REPORT

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PCT/JP2005/006754

		PC1/0P2	005/006/54
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 30952/1992(Laid-open No. 90078/1993) (Mitsubishi Motors Corp.), 07 December, 1993 (07.12.93), Par. Nos. [0009] to [0012]; Fig. 1 (Family: none)		3,4,6,7,13, 14,16,17
Y	(Family: none) JP 49-41543 Y1 (Sanyo Electric Co., Ltd. 14 November, 1974 (14.11.74), Full text; Fig. 2 (Family: none)),	4,6,7,14,16,